

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Currently amended) A method for routing data over multiple routes, including dissimilar wireless networks, the data being received from a plurality of applications, the

method comprising:

ascertaining availability of the multiple dissimilar wireless networks routes;  
receiving data from a selected application of the plurality of applications;  
determining a designated wireless network route that is associated with the selected application; and  
sending the received data over the designated wireless network route when the designated wireless network route has been ascertained to be available.

2 - 5. (Canceled)

6. (Currently amended) The method of claim 1, wherein the designated network route comprises a default network route.

7. (Currently amended) The method of claim 1, wherein the designated network route comprises a different network ~~an alternate~~ route.

8. (Currently amended) The method of claim 1, in which the determining further comprises determining the designated network route based upon a port number associated with a destination of a received packet.

9. (Currently amended) The method of claim 1, in which the determining further comprises determining the designated network route based upon an IP address associated with a destination of a received packet.

10. (Currently amended) The method of claim 1, in which the ascertaining further comprises notifying a host network server of the availability of each wireless network route when a network route is ascertained to be available.

11. (Currently amended) A system for routing data over multiple dissimilar wireless networks, the data being sent from a plurality of applications, the system comprising:

a mobile router that receives data from a selected one of the applications, the mobile router comprising a port routing table containing information that specifies, based on at least one characteristic of the data, over which of the multiple dissimilar wireless network networks the data should be routed, ~~the at least one characteristic comprising at least one of a port number, IP address and protocol.~~

12. (Currently amended) The system of claim 11, wherein a different ~~an alternate~~ route over which the data is routed is specified based upon the at least one characteristic of data.

13. (Original) The system of claim 11, wherein a default route over which the data is routed is specified based upon the at least one characteristic of data.

14, 15. (Canceled)

16. (Currently amended) The system of claim 11, further comprising a host network server, wherein the mobile router notifies the host network server whenever any wireless network enters an in-coverage state.

17. (Currently amended) A system for routing data over multiple wireless networks, the data being sent from a plurality of applications, the system comprising:  
a host network server that receives data from a selected one of the applications, the host network server comprising a port routing table containing information that specifies, based on at least one characteristic of the data, over which wireless network the data should be routed, the at least one characteristic comprising a type of data ~~at least one of a port number, IP address and protocol~~.

18. (Currently amended) A computer readable medium storing a computer program that enables the specification of IP routing behavior over multiple wireless networks, the medium comprising:

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a source code segment that receives data from a plurality of applications, each application having a unique port number;

a source code segment that stores a port routing table containing information that specifies, based on ~~the at least one of an application's port number, IP address and protocol,~~ over which wireless network the application's data should be routed, ~~and whether the application's data should not be routed over the multiple wireless networks;~~ and

a source code segment that determines from the information contained in the port routing table an appropriate wireless network for the data from the plurality of applications to be routed over.

19. (Currently amended) The medium of claim 18, wherein the port routing table comprises ~~at least one of a port route type indicator field~~ comprising one of alternate, ignore, and default indicators, IP address field, protocol type field, port number field, and network ID field.

20. (Canceled)

21. (Currently amended) The medium of claim ~~19~~ 20, wherein when the alternate indicator is selected, data will be routed through a specified alternate wireless network.

22. (Currently amended) The medium of claim ~~19~~ 20, wherein when the ignore port route type indicator is selected, data will be ignored instead of being routed.

23. (Currently amended) The medium of claim 19 20, wherein when the default port route type indicator is selected, data will be routed through a default network.

24. (Original) The medium of claim 19, the port routing table further comprising a field to indicate whether an IP address appears in a source, destination, or either location within a protocol header of data packets being transmitted.

25. (Original) The medium of claim 19, wherein the protocol type field identifies the transport level protocol type of the packet.

26. (Original) The medium of claim 19, wherein the port number field identifies the port number of an application.

27. (Original) The medium of claim 26, the port routing table further comprising a field to indicate whether a port number appears in a source, destination, or either location within a protocol header of data packets being transmitted.

28. (Original) The medium of claim 19, wherein the network ID field identifies which network is used to route data.

29. (Original) The medium of claim 18, further comprising an availability source code segment that ascertains the availability of the multiple wireless networks.

30. (Original) The medium of claim 29, further comprising a sending source code segment that sends the received data over the appropriate wireless network when the routing path has been ascertained to be available.

31. (New) A method for routing data over multiple wireless networks, the data being received from a plurality of applications, the method comprising:

ascertaining availability of the multiple wireless networks;

receiving data from a selected application of the plurality of applications;

selecting a preferred wireless network based upon the type of received data;

sending the received data over the preferred wireless network when the preferred wireless network has been ascertained to be available; and

switching from a first wireless network to a second wireless network while sending data so that data is transmitted over both the first and the second wireless networks.

32. (New) The method of claim 31, in which the type of received data indicates the application sending the data.

33. (New) The method of claim 31, further comprising associating wireless networks with applications.

34. (New) A method for routing data over multiple wireless networks, the data being received from a plurality of applications, the method comprising:

associating wireless networks with applications;

ascertaining availability of the multiple wireless networks;

receiving data from a selected application of the plurality of applications;

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sending the received data over a wireless network associated with the selected application when the associated wireless network has been ascertained to be available; and

switching from a first wireless network to a second wireless network while sending data so that data is transmitted over both the first and the second wireless networks.

35. (New) A computer readable medium storing a program for routing data over multiple wireless networks, the data being received from a plurality of applications, the medium comprising:

an availability source code segment that ascertains availability of the multiple wireless networks;

a receiving source code segment that receives data from a selected application of the plurality of applications;

a network selecting source code segment that determines a preferred wireless network based upon the type of received data;

a sending source code segment that sends the received data over the preferred wireless network when the preferred wireless network has been ascertained to be available; and

a switching source code segment that switches from a first wireless network to a second wireless network while sending data so that data is transmitted over both the first and the second wireless networks.

36. (New) The medium of claim 35, in which the type of received data indicates the application sending the data.

37. (New) The medium of claim 35, further comprising a table associating wireless networks with applications.

38. (New) A computer readable medium storing a program for routing data over multiple wireless networks, the data being received from a plurality of applications, the medium comprising:

a table associating each of the wireless networks with an application;

an availability source code segment that ascertains availability of the wireless networks;

a receiving source code segment that receives data from a selected application of the plurality of applications;

a sending source code segment that sends the received data over a wireless network associated with the selected application when the associated wireless network has been ascertained to be available; and



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a switching source code segment that switches from a first wireless network to a second wireless network while sending data so that data is transmitted over both the first and the second wireless networks.

39. (New) An apparatus for routing data over multiple wireless networks, the data being received from a plurality of applications, the apparatus comprising:

a network monitor that ascertains availability of the multiple wireless networks;

a receiver that receives data from a selected application of the plurality of applications;

a router that determines a preferred wireless network based upon the type of received data;

a transmitter that sends the received data over the preferred wireless network when the preferred wireless network has been ascertained to be available; and

a switch that switches from a first wireless network to a second wireless network while sending data so that data is transmitted over both the first and the second wireless networks.

40. (New) The apparatus of claim 39, in which the type of received data indicates the application sending the data.

41. (New) The apparatus of claim 39, further comprising a table associating wireless networks with applications.

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42. (New) An apparatus for routing data over multiple wireless networks, the data being received from a plurality of applications, the apparatus comprising:

a monitor that ascertains availability of the multiple wireless networks;

a receiver that receives data from a selected application of the plurality of applications;

a network selector that determines a preferred wireless network based upon the type of received data;

a transmitter that sends the received data over the preferred wireless network when the preferred wireless network has been ascertained to be available; and

a switch that switches from a first wireless network to a second wireless network while sending data so that data is transmitted over both the first and the second wireless networks.